Docket No.: 50275-0017

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office and citizenship are as stated below next to my name,



I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint f

DISPLACING	EDGE SEGMENTS	of the subject matter claimed and for ON A FABRICATION LAYOUT OR CORRECTING PROXIMITY	BASED ON PROXIMITY
⊠ is att was	ached hereto. filed on as A	Application Serial No and v	was amended on (if applicable).
I hereby state the claims, as amen	nat I have reviewed and unded by any amendment refe	derstand the contents of the above identerred to above.	tified specification, including the
I acknowledge twith Title 37, C	he duty to disclose informations ode of Federal Regulations	ation which is known to me to be mater, Section 1.56.	rial to patentability in accordance
application(s) f	for patent or inventor's c	under Title 35, United States Code certificate listed below and have also ate having a filing date before that of the	o identified below any foreign
Prior Foreign A			· ·
Number	Country	Day/Month/Year filed	Priority Claimed
I hereby claim th	ne benefit under 35 USC §1	19(e) of any United States provisional a	application(s) listed below.
Prior Provision	al Application(s):	Filing Date:	
listed below and United States ap 112, I acknowle	l, insofar as the subject material polication in the manner produce the duty to disclose materials occurred between the factorial policy.	, United States Code, Section 120 of a tter of each of the claims of this applica rovided by the first paragraph of Title a aterial information as defined in Title 3 filing date of the prior application and the	ation is not disclosed in the prior 35, United States Code, Section 37, Code of Federal Regulations.
n			

Prior U.S. Application(s):

Serial No.

Filing Date

Status: Patented, Pending, Abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) and/or agent(s): Edward A. Becker, Reg. No. 37,777; Marcel K. Bingham, Reg. No. 42,327; Carl L. Brandt, Reg. No. 44,555; Brian D. Hickman, Reg. No. 35,894; Craig G. Holmes, Reg. No. 44,770; Christopher J. Palermo, Reg. No. 42,056; Carina M. Tan, Reg. No. 45,769; and Bobby K. Truong, Reg. No. 37,499, all of

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with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and all future correspondence should be addressed to them.

Full name of sole or first inventor CHRISTOPHE PIERRAT	•
Inventor's signature:	Date: 11 /2 01 06
Residence: 420 Riverside Court, Apt. 307, Santa Clara, CA 95054	11/10/00
Citizenship: France	
Post Office Address: 420 Riverside Court, Apt. 307, Santa Cruz, CA 95054	
Full name of second inventor: YOUPING ZHANG	
Inventor's signature: My mg	Date: Nov 28, 2000
Residence: 37151 Magnolia Street, Newark, CA 94560	100000
Citizenship: Republic of China	
Post Office Address:	



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

MARCH 02, 2001

PTAS

HICKMAN PALERMO TRUONG & BECKER, LLP BRIAN D. HICKMAN 1600 WILLOW STREET SAN JOSE, CALIFORNIA 95125-5106

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/01/2000

REEL/FRAME: 011352/0018

NUMBER OF PAGES: 4

ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). BRIEF:

ASSIGNOR:

PIERRAT, CHRISTOPHE

DOC DATE: 11/28/2000

ASSIGNOR:

ZHANG, YOUPING

DOC DATE: 11/28/2000

ASSIGNEE:

NUMERICAL TECHNOLOGIES, INC. 70 WEST PLUMERIA DRIVE SAN JOSE, CALIFORNIA 95134

SERIAL NUMBER: 09728885

PATENT NUMBER:

FILING DATE: 12/01/2000

ISSUE DATE:

PEARLENE FOSTER, PARALEGAL ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

DOCKETED DATES:

12-22-2000



U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

R' FORM PTO-1596 1-31-92

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Docket No.: 50275-0017					
To the Honorable Commissioner of Patents and Trademarks:	Please record the attached original documents or copy thereto:				
1. Name of Conveying Party(ies):	2. Name and address of receiving party(ies):				
CHRISTOPHE PIERRAT	Name: Numerical Technologies, Inc.				
YOUPING ZHANG	Internal Address:				
Additional name(s) of conveying party(ies) attached? Yes	368				
3. Nature of Conveyance:	Ď.				
	Street Address: 70 West Plumeria Drive				
☐ Security Agreement ☐ Change of Name					
Other	City: San Jose State/Country CA ZIP: 95134				
Execution Date: November 28, 2000	Additional name(s) & address(es) attached? Yes				
4. Application number(s) or patent number(s):	ne execution data of the application is: November 28, 2000				
If the document is being filed together with a new application, the	ne execution date of the application is:				
A. Patent Application No(s).	B. Patent No(s).				
09 778895					
·	· ·				
Additional number	ers attached? Yes				
5. Name and address of party to whom correspondence concerning	6. Total number of applications and patents involved: 1				
Document should be mailed:					
Name: HICKMAN PALERMO TRUONG & BECKER, LLP	7. Total fee (37 CFR 3.41) \$40.00				
Internal Address:					
	Authorized to be charged to deposit account				
Street Address: 1600 Willow Street	8. Deposit account number:				
	50-1302				
City: San Jose State: CA Zip: 95125-510	06				
DO NOT USE THIS SPACE					
9. Statement and signature.					
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy					
of the original document.					
Brian D. Hickman, Registration No. 35,894	December 1, 2000				
Name and Registration No. of Person Signing	Signature Date				
Total number of pages comprising cover sheet: 4					
CMB No. 0851-0011 (exp. 4/94)					

12/07/2000 MAHMED1 00000053 09728885 04 FC:581

Docket No.: 50275-0017

ASSIGNMENT

WHEREAS WE, CHRISTOPHE PIERRAT, of Santa Clara, California, and YOUPING ZHANG, of Newark, California, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled DISPLACING EDGE SEGMENTS ON A FABRICATION LAYOUT BASED ON PROXIMITY EFFECTS MODEL AMPLITUDES FOR CORRECTING PROXIMITY EFFECTS, executed by us on the date of execution of this document, as shown below, and filed concurrently herewith;

AND WHEREAS, NUMERICAL TECHNOLOGIES, INC., a corporation of the State of California and having an address of 70 West Plumeria Drive, San Jose, CA 95134-2134 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, I do hereby sell, assign, transfer and set over unto Numerical Technologies, Inc., its legal representatives, successors, and assigns ("Assignee"), the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, I hereby agree with the said Assignee that I will not execute any writing or do any act whatsoever conflicting with these presents, and that I will, at any time upon request, without further or additional consideration but at the expense of said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and Assignee;

AND I request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Assginee, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

11/28	100	1
Date	CHRISTOTHE PIERR	AT
	•	
STATE OF CALIFORNIA)	
COUNTY OF SANTA CLA) SS: <u>LA_</u>)	
personally appeared Christophe of satisfactory evidence) to be the acknowledged to me that he e	e Pierrat, personally known to me (or proved the person whose name is subscribed to the with executed the same in his authorized capacite to person, or the entity upon behalf of whice	ithin instrument an ty, and that by hi
WITNESS my hand and	official seal.	
SEAL	Notary Public	
ANN C. WILLIAMS Commission # 1218237 Notary Public - California Santa Clara County	My commission expires <u>5 - 6 -03</u>	· .

NW 28,) 00 Date	YOUPIN	NG ZHANG
STATE OF CALIFORNIA) SS:	
personally appeared Youp satisfactory evidence) to be acknowledged to me that	day of November ing Zhang, personally known to me be the person whose name is subscribe the executed the same in his auth and the person, or the entity upon the	ibed to the within instrument and horized capacity, and that by his
WITNESS my hand	d and official seal. Notary Public	1. Class
ANN C. WILLIAMS Commission # 1218237 Notary Public - California	My commission expires _	5-6-03